## ABSTRACT

This invention provides a novel phosphor material that has better brightness than conventional phosphors using dispersed rare earth ions, and that possesses excellent light resistance, temporal stability, and the like, and a light-emitting device with high brightness comprising such phosphor material and an excitation ultraviolet light source corresponding to the properties thereof. A phosphor comprising a silicon-containing solid matrix and semiconductor superfine particles dispersed therein at a concentration of  $5 \times 10^{-4}$  to  $1 \times 10^{-2}$  mol/L, said semiconductor superfine particles having a fluorescence quantum yield of 3% or greater and a diameter of 1.5 to 5 nm, and a light-emitting device including said phosphor and a light source for excitation light with an intensity of 3 to 800 W/cm<sup>2</sup>.

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